

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

GENERAL INDEX

Classified entries will be found under Contributors and Reviewers. New names and names of new genera, species, and varieties are printed in **bold face** type; synonyms in *italics*.

Α

Abscission 75, in Coleus 32
Adaptation and natural selection 382
Addisonia 287
Aëration of nutrient solutions 80
Agaricaceae, development in 459
Andrews, E. F. 382
Apogamy in ferns 80
Arber, Agnes, work of 288
Arthur, J. C., work of 182, 544
Asclepias cryptoceras, pollination of 177
Atkinson, G. F. 285, 459
Atmometry 183
Aucuba, embryo of 79
Australia, flora of the Northern Territory 537

В

Bakke, A. L. 81, work of 184 Barker, E. E., work of 544 Bean, purple hyacinth 512 Begonia, endemic, of Hawaii 273 Bergen, Joseph Young, biographical sketch of 455 Bews, J. W., work of 542 Blake, S. F., work of 72 Bliss, Mary C. 54 Blizzard, A. W., work of 460 Boas, Helene M., work of 540 Bower, F. O., work of 183 Brenner, W., work of 539 Bridges, C. B., work of 284 Britton, N. L., work of 73 Brown, J. G. 269, work of 80, 390 Brown, W. H., work of 77 Brown, W., work of 538 Bruner, S. C., work of 73 Bryophyllum calycinum 69 Buchholz, J. T. 185 Burlingham, Gertrude S., work of 73

C

Caldwell, J. S. 178, 277 Campbell, D. H., "Mosses and ferns" 383

Cannon, W. A., work of 78 Carbohydrates, estimation of 178; formation and translocation of 277 Carpentea 538 Carya 229, alba 236, alba anomala 238, alba ovoidea 238, aquatica 232, australis 232, Brownii 252, Buckleyi arkansasa 240, Buckleyi villosa 251, carolinae-septentrionalis 236, cordi-formis 231, **Dunbarii** 254, floridana 247, glabra 242, glabra megacarpa 244, laciniosa 236, Laneyi 253, leiodermis callicoma 240, myristicaeformis 233, Nussbaumerii 254, ovalis 245, ovalis hirsuta 247, ovata 234, ovata complanata 235, ovata ellipsoidalis 235, ovata pubescens 236, pallida 241, pecan 230, Schneckii 253, texana 231 Cavea 74 Ceylon, fungi of 183 Chamberlain, C. J. 392 Clements, F. E., work of 386 Coleus, abscission in 32 Collins, G. N., work of 541, 544 Conard, H. S., work of 542 Continuous variation 540 Contributors: Andrews, E. F. 382; Atkinson, G. F. 285, 459; Bakke, A. L. 81; Bliss, Mary C. 54; Brown, J. G. 269; Buchholz, J. T. 185; Caldwell, J. S. 178, 277; Chamberlain, C. J. 392; Coulter, J. M. 72, 79, 80, 182, 183, 184, 287, 283, 302, 464, 527, 543, 544. Coulter, J. M. 72, 79, 80, 182, 183, 184, 287, 383, 392, 464, 537, 543, 544; Coulter, M. C. 70, 284, 461, 463, 540, 541, 543, 544; Cowles, H. C. 391, 540, 542; Crocker, W. 80, 184; Cunningham, B. 272; Dudgeon, W. 393; Dufrenoy, J. 439; Elmore, C. J. 287; Freeman, G. F. 512; Friesner, R. C. 383; Fuller, G. D. 76, 78, 288, 385, 390, 539, 542; Goodspeed, T. H. 75, 176, 381, 534; Harris, J. A. 275; Hasselbring, H. 537, 538, 539; Haupt, A. W. 524; Hutchinson, A. H. 465; Loeb, J. 69; MacCaughey, V. 273; Nothnagel, Mildred 143; Noyes, H. A. 364; Ottley, Alice M. 289; Pfeiffer, Norma E. 354; Phillips, T. G. 77, 462; Record, S. J. 61; Reed, H. S. 374; Robertson, C. 17; Sampson, H. C. 32; Sargent, C. S. 220, 427, 404; Schneider, C. 117, 318; Shull, C. A. 183, 388, 392; Sinnott, E. W. 162; Steil, W. N. 68; Trost, J. F. 364; True, R. H. 455; Weir, J. R. 1; Weniger, Wanda 259; Yoder, L. 364 Corson, G. E., work of 184 Coulter, J. M. 72, 70, 80, 182, 183, 184, 287, 383, 392, 464, 537, 543, 544 Coulter, M. C. 70, 284, 461, 463, 540, 541, 543, 544 Cowles, H. C. 391, 540, 542, work of 387 Crocker, W. 80, 184; work of 463 Cuba, rusts of 544 Cunningham, B. 272 Cycas, foreign pollen on 392

${ m D}$

Daish, A. J., work of 178, 180, 181, 277
Davis, B. M., work of 285
Davis, Olive B., "Flora of the Northern
Territory" 537
Davis, W. A., work of 178, 179, 180, 181, 182, 277
Delf, E. M., work of 388
Desiccation 390
Diatoms, economic importance of 287
Disease, fungus 537, resistance 79
Dodge, C. W., work of 74
Dominance and parasitism 541
Douglas, Gertrude E., work of 459
Dudgeon, W. 393
Dufrenoy, J. 439

\mathbf{E}

East, E. M., work of 70, 461
Elmore, C. J. 287
Elymus 183
Embryo and suspensor of Pinus 185;
of Aucuba 79
Embryo sac of Oenothera 184
Endosperm nucleus in Liliaceae 143
Eutetramorus 74
Evans, A. W., work of 183
Evans, F. B. P., work of 539
Ewart, A. J., "Flora of the Northern
Territory" 537

\mathbf{F}

Fairy rings 391 Farwell, O. A., work of 73 Fernald, M. L., work of 73, 183 Ferns, apogamy in 80 Fertilization in Liliaceae 143 Filicales, phylogeny of 183 Fink, B., work of 542
Food reserve in woody plants 162
Forest, soils and forest regeneration 76; trees, competition factor 479; humus factor 472; light factor 474; soil factor 471; temperature factor 467; time factor 474; water factor 468; range of 465
Free, E. E., work of 78
Freeman, G. F. 512
Friesner, R. C. 383
Fuller, G. D. 76, 78, 288, 385, 390, 539, 542
Fungi of Ceylon 183

C

Genetics, morning glory in 544 Gleason, H. A., work of 386 Goodspeed, T. H. 75, 176, 381, 534 Grasses of Illinois 392 Greenman, J. M., work of 73 Guillermond, A., work of 383

\mathbf{H}

Haas, A. R., work of 462
Halsted, B. D., work of 288
Harper, R. M., work of 390
Harris, J. A. 275
Harvey, L. H., work of 184
Hasselbring, H. 537, 538, 539
Haupt, A. W. 524
Hawaii, endemic Begonia of 273
Hayes, H. K., work of 70
Hecatostemon 72
Hempel, Jenny, work of 462
Hesselman, H., work of 76, 77
Hind, Mildred, work of 388
Hodgson, R. W., work of 75
Hooker, H. D., work of 77
Hutchinson, A. H. 465
Hybrid vigor 70

Т

Illinois, grasses of 392 Impatiens sultani, life history of 289 Insectivorous plants, mechanics of movement in 77 Insect pests 537 Intercellular canals 543 Iowa, tree growth in 542 Iron in nutrient solutions 184 Ishikawa, M., work of 184

١

Jackson, H. S., work of 544 Jennings, H. S., work of 463 Jensen, G. H., work of 288 Johnston, E. S., work of 183 Johnston, J. R., work of 73, 544 Jones, D. F., work of 72, 541 Jones, L. R., work of 79 Jørgensen, I., work of 80, 389

\mathbf{K}

Keeble, F., work of 71 Kempton, J. H., work of 544 Kendall, J. N., work of 75 Kluyver, A. J., work of 179 Kormickia 74

L

LeGoc, M. J., work of 392 Lejeunea 183 Lichen growth 542 Lilium, fertilization in 259 Livingston, B. E., work of 183 Loeb, J. 69 Long, E. R., work of 80, 390

\mathbf{M}

Macbride, J. F., work of 73
MacCaughey, V. 273
MacDougal, D. T., work of 80, 390
McDougall, W. B., work of 286
Mann, A., work of 287
Metz, C. W., work of 284
Michigan, the vegetation of 390
Microtome, modification of hand 534
Milspaugh, C. F., work of 74
Mistletoe, experimental investigations in 1
Mitochondria 383
Monocotyledons, intrafascicular cambium in 288
Morning glory in genetics 544
Mosher, Edna, work of 392
Mosse, C. E., work of 385
Mosses and ferns 383
Mottier, D. A., work of 384
Muller, H. J., work of 284
Murrill, W. A., work of 73, 74
Mushrooms, edible and poisonous 285
Mutations and selectionists 463

Ν

Narcotic plants and stimulants 464 Natal, vegetation studies in 542 Natural selection and adaptation 382 New-place effect 541 Nichols, G. E., work of 386 Nothnagel, Mildred 143 Noyes, H. A. 364 Nutrient solutions, aëration of 80

0

Oenothera, embryo sac of 184; the situation 284 Oregon rusts 544 Ottley, Alice M. 289 Owen, E. J., work of 288 Oxycarpha 72

Ρ

Pallavicinia Lyellii 524 Palm, B., work of 79 Paraffin solvent replaced with paraffin Parasitism and dominance 541; phenomena of 538 Park J. B., work of 461 Peas, inheritance of height in 543 Pellew, C., work of 71 Penicillium, pigment production in 539 Permeability 388 Petch, T., work of 183 Petherbridge, F. R., "Fungoid and insect pests" 537 Pfeiffer, Norma E. 354 Phillips, T. G. 77, 462 Phoradendron, secondary parasitism in Piemeisel, R. L., work of 391 Pine needles, their significance and his-Pinus, suspensor and embryo of 185; montanum, bisporangiate cones of 68 Pisum, inheritance in 543 Pollination of Asclepias cryptoceras 177 Polyembryony 184 Practical breeding 544

Ð

Razoumofskya, experimental investigations I
Record, S. J. 61; work of 543
Reed, H. S. 374
Reviews: Campbell's "Mosses and ferns"
383; Davis' "Flora of the Northern
Territory" 537; Ewart's "Flora of
the Northern Territory" 537; Petherbridge's "Fungoid and insect pests"
537
Robertson, C. 177
Root growth and soil aëration 78; variations 364
Rosa 183
Rossittia 538
Rübel, E., work of 540
Rumex crispus, morphology of 393
Rusts, of Cuba 544; of Oregon 544
Rutgers, A. A. L., work of 79

S

Safety-razor blade holder 176 Safford, W. E., work of 464 Salix anamesa 348; anglorum 126; anglorum antiplasta 134; anglorum araioclada 133; anglorum kophylla 130; arctica 118; arctica subcordata 125; brachycarpa 336; brachycarpa glabellicarpa 338; chlorolepis 338; chlorolepis antimima 339; cordifolia 343; cordifolia Macounii 347; desertorum 331; fullertonensis 340; glauca 319; glauca acutifolia 327; glauca glabrescens 329; groenlandica 140; lingulata 353; niphoclada 339; ovalifolia 138; petrophila 135; pseudolapponum 334; stolonifera 137 Sampson, H. C. 32 Sargent, C. S. 229, 421, 494 Sawyer, G. C., work of 181, 277 Schismocarpus 73 Schneider, C. 117, 318 Seed position and growth 288 Self-sterility 461 Setosa 538 Shantz, H. L., work of 391 Sharp, L. T., work of 78 Sherff, E. E., work of 74 Shull, C. A., 183, 388, 392 Sinnott, E. W. 162 Small, J., work of 74, 78 Smith, A., work of 78 Smith, W. W., work of 74 Soil aëration and root growth 78; moisture studies 78 South Africa, phytogeography of 539 Spathia 538 Spirogyra, abnormal conjugation in 269; cross-conjugation in 272 Sporangia of Thismia americana 354 Steil, W. N. 68; work of 80 Stephani, F., work of 74 Stiles, W., work of 80, 389, 392 Stout, A. B., work of 540 Succulents, buffer process in 462

T

Taxineae, interrelationships of 54 Thismia americana, sporangia of 354 Tilia 421; caroliniana 496; caroliniana rhoophila 498; Cocksii 437; crenoserrata 430; floridana 431; floridana australis 435; floridana hypoleuca 436; floridana oblongifolia 435; georgiana 510; georgiana crinita 511; glabra 424; heterophylla 504; heterophylla nivea 507; lasioclada 502; littoralis 429; littoralis discolor 430; monticola 508; neglecta 494; nuda 425; nuda brevipedunculata 427; nuda glaucescens 427; phanera 501; phanera scabrida 502; texana 500; texana grosseserrata 501; venulosa 428; venulosa multinervis 429

Tracheids, significance of resinous 61 Trost, J. F. 364 True, R. H. 455

U

Units of vegetation 385 Uredineae 182

W

Walton, L. B., work of 74
Water culture 392
Waynick, D. D., work of 78
Weir, J. R. I
Weniger, Wanda 259
Wheat, morphology of 288; absorption
of sodium and calcium by seedlings
374
White, O. E., work of 543
Wiegand, K. M., work of 183
Willows, notes on American 117, 318
Wilting, determination of 81
Woody plants, food reserve in 162

 \mathbf{Y}

Yoder, L. 364

 \mathbf{Z}

Zeller, S. M., work of 74